

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF072318\  
 Data File : BF107589.D  
 Acq On : 23 Jul 2018 15:45  
 Operator : JU/SJ  
 Sample : J3827-03 2X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-01-071918

Quant Time: Jul 23 18:14:29 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF072018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 20 16:29:27 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 324814   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.26  | 136  | 1278797  | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.02 | 164  | 518886   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.51 | 188  | 850668   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.17 | 240  | 668269   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.71 | 264  | 654663   | 20.00 | ng    | 0.01     |

## System Monitoring Compounds

|                          |       |     |         |       |    |       |
|--------------------------|-------|-----|---------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.60  | 112 | 835398  | 41.35 | ng | 0.00  |
| 7) Phenol-d6             | 6.60  | 99  | 1100375 | 45.36 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 7.54  | 82  | 684294  | 36.11 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.81 | 330 | 255581  | 43.31 | ng | 0.00  |
| 44) 2-Fluorobiphenyl     | 9.33  | 172 | 1319039 | 36.09 | ng | 0.00  |
| 78) Terphenyl-d14        | 13.10 | 244 | 1024869 | 39.26 | ng | 0.00  |

## Target Compounds

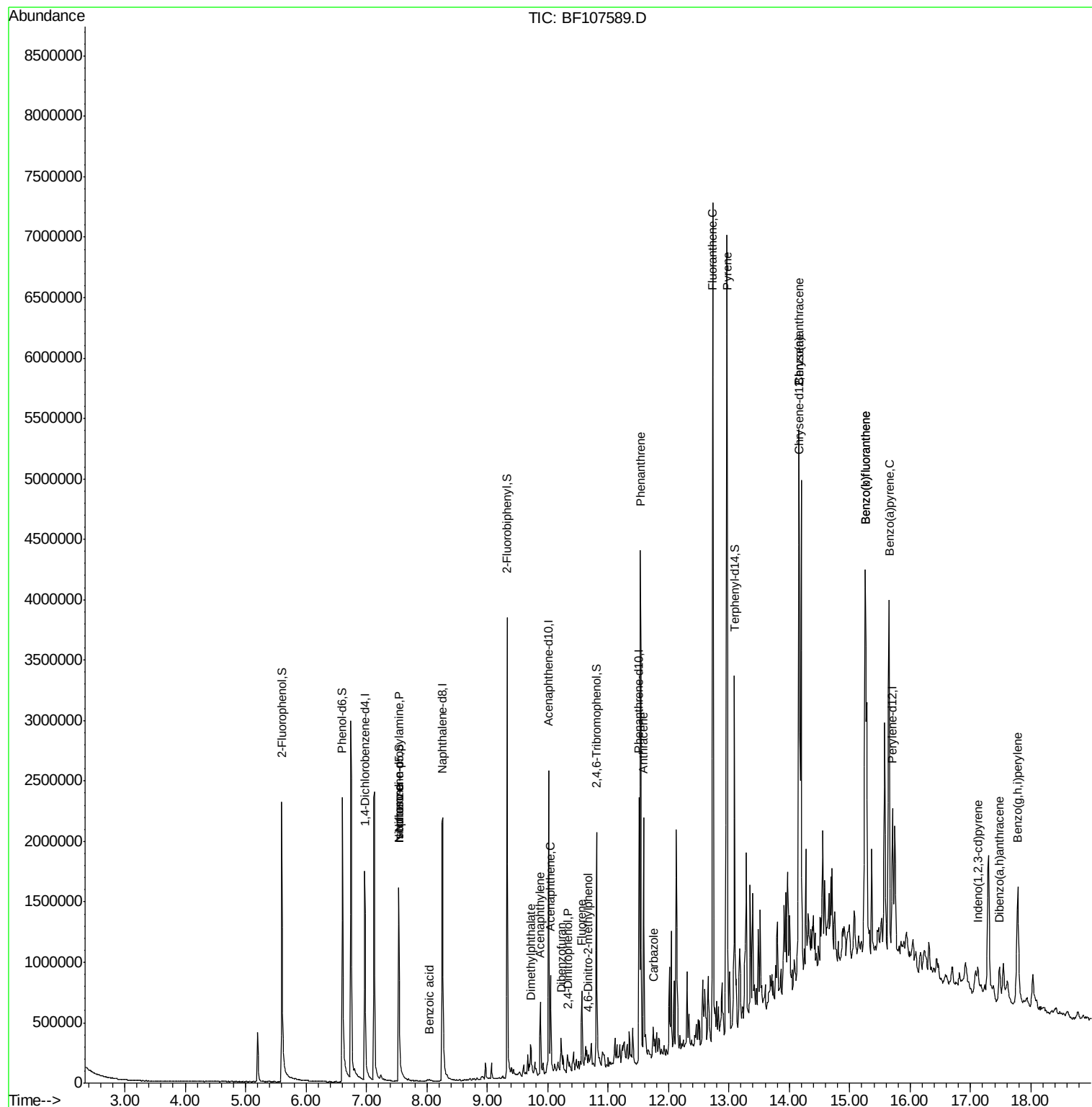
|                                |       |     |         |           |   | Qvalue |
|--------------------------------|-------|-----|---------|-----------|---|--------|
| 9) Benzaldehyde                | 6.61  | 77  | 1972    | Below Cal | # | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.54  | 70  | 87367   | 5.575 ng  | # | 81     |
| 25) Isophorone                 | 7.54  | 82  | 684168  | 16.910 ng | # | 64     |
| 32) Benzoic acid               | 8.04  | 122 | 498     | 7.934 ng  | # | 51     |
| 48) Acenaphthylene             | 9.88  | 152 | 286183  | 5.514 ng  |   | 99     |
| 49) Dimethylphthalate          | 9.72  | 163 | 87617   | 2.240 ng  | # | 97     |
| 51) Acenaphthene               | 10.05 | 154 | 157963  | 4.858 ng  |   | 95     |
| 53) 2,4-Dinitrophenol          | 10.33 | 184 | 229     | 8.366 ng  | # | 1      |
| 54) Dibenzofuran               | 10.22 | 168 | 138160  | 2.886 ng  |   | 96     |
| 57) Fluorene                   | 10.57 | 166 | 210581  | 6.166 ng  |   | 94     |
| 64) 4,6-Dinitro-2-methylphenol | 10.67 | 198 | 111     | 8.703 ng  | # | 1      |
| 70) Phenanthrene               | 11.54 | 178 | 1683182 | 40.604 ng |   | 98     |
| 71) Anthracene                 | 11.59 | 178 | 916763  | 21.965 ng |   | 99     |
| 72) Carbazole                  | 11.75 | 167 | 94154   | 2.169 ng  |   | 97     |
| 73) Di-n-butylphthalate        | 12.05 | 149 | 44905   | Below Cal | # | 88     |
| 74) Fluoranthene               | 12.74 | 202 | 3299207 | 74.169 ng |   | 95     |
| 77) Pyrene                     | 12.97 | 202 | 3217688 | 70.393 ng | # | 93     |
| 80) Benzo(a)anthracene         | 14.16 | 228 | 1820234 | 46.480 ng |   | 93     |
| 81) 3,3'-Dichlorobenzidine     | 14.12 | 252 | 1174    | Below Cal | # | 60     |
| 82) Chrysene                   | 14.16 | 228 | 1820234 | 48.386 ng |   | 97     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.12 | 276 | 177708  | 5.574 ng  |   | 94     |
| 87) Benzo(b)fluoranthene       | 15.26 | 252 | 3036280 | 84.744 ng |   | 96     |
| 88) Benzo(k)fluoranthene       | 15.26 | 252 | 3036280 | 86.498 ng |   | 98     |
| 89) Benzo(a)pyrene             | 15.65 | 252 | 1707742 | 52.107 ng |   | 96     |
| 90) Dibenzo(a,h)anthracene     | 17.48 | 278 | 201509  | 7.113 ng  |   | 97     |
| 91) Benzo(g,h,i)perylene       | 17.78 | 276 | 960275  | 34.363 ng |   | 94     |

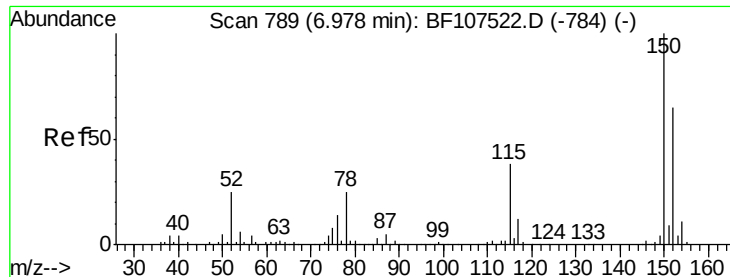
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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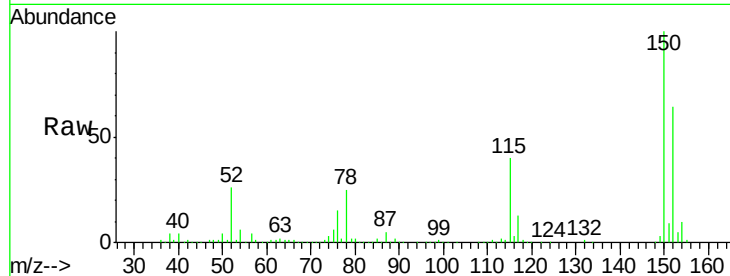


#1

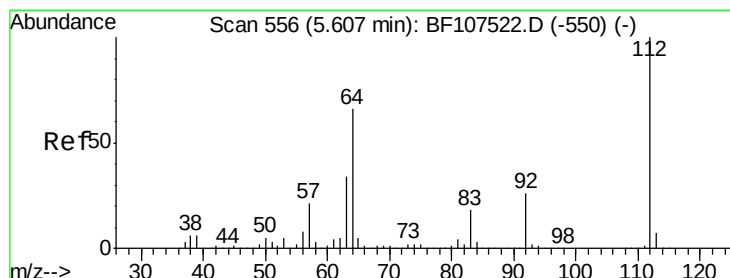
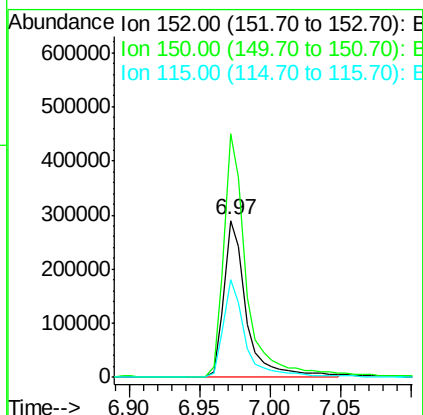
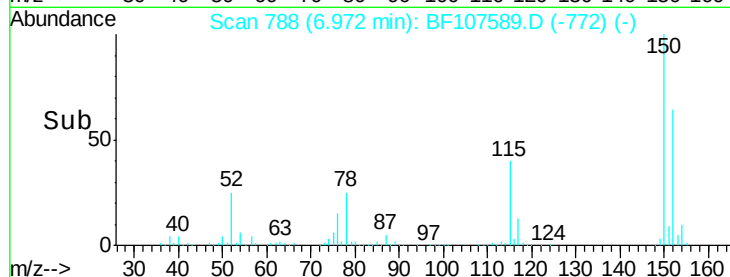
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 788  
Delta R.T. -0.01 min  
Lab File: BF107589.D  
Acq: 23 Jul 2018 15:45

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-071918

Tgt Ion:152 Resp: 324814  
Ion Ratio Lower Upper  
152 100  
150 155.5 124.6 186.8  
115 62.4 50.1 75.1



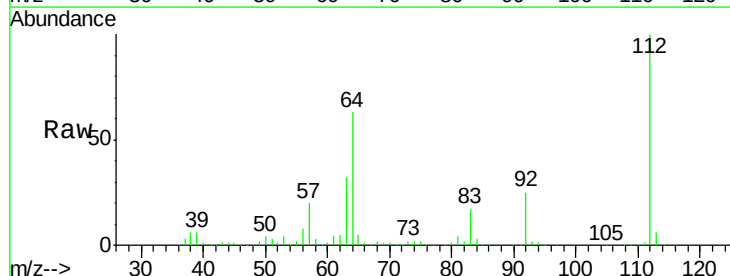
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



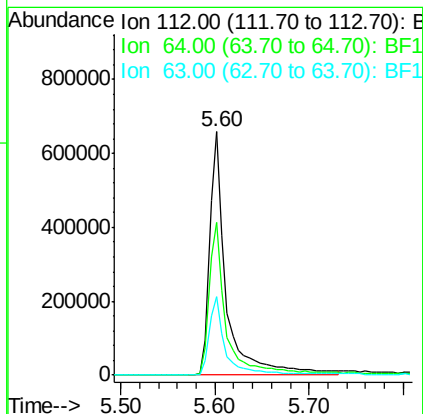
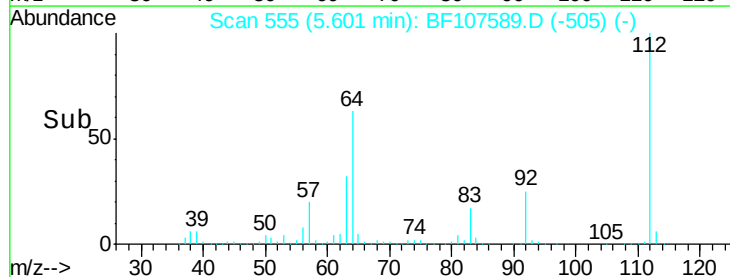
#5

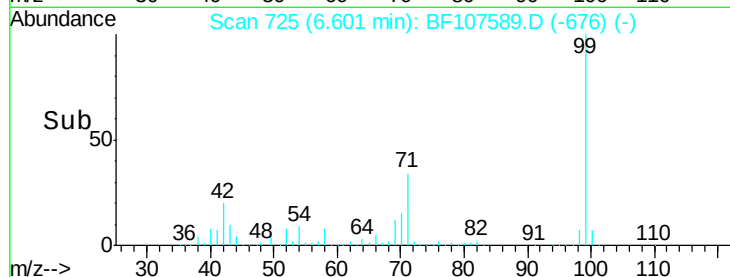
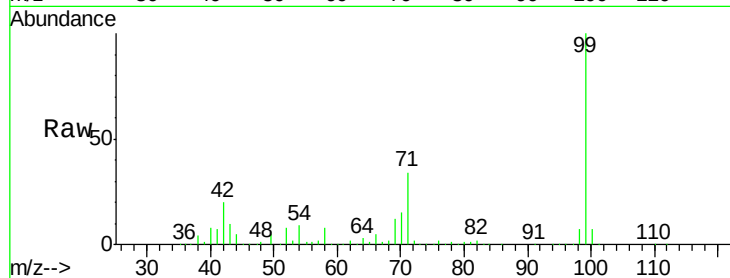
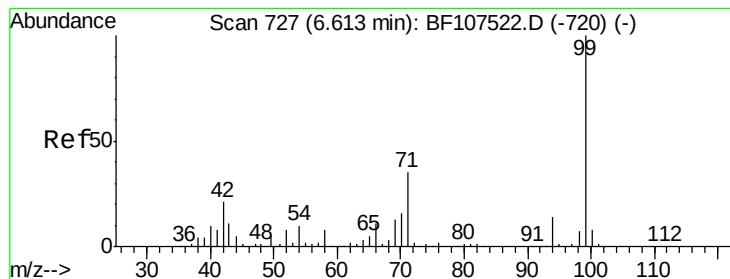
2-Fluorophenol  
Concen: 41.352 ng  
RT: 5.60 min Scan# 555  
Delta R.T. -0.01 min  
Lab File: BF107589.D  
Acq: 23 Jul 2018 15:45

Tgt Ion:112 Resp: 835398  
Ion Ratio Lower Upper  
112 100  
64 62.6 47.9 71.9  
63 32.3 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 45.362 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

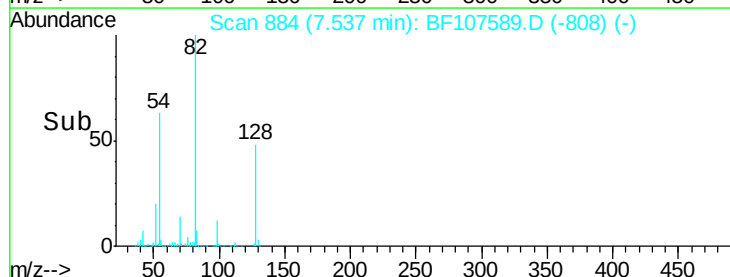
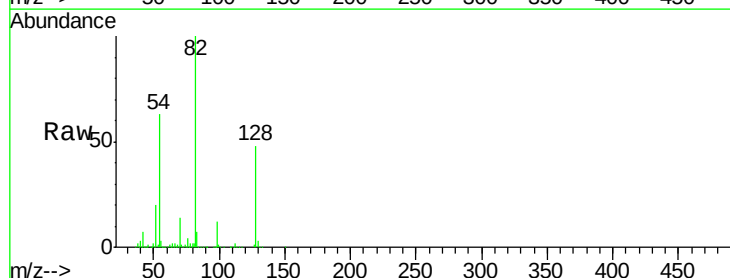
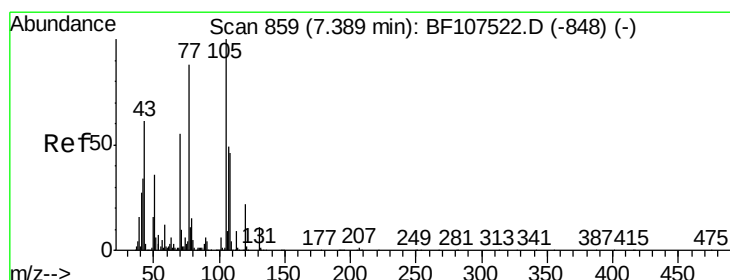
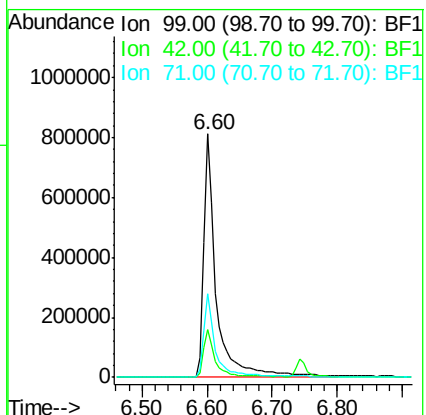
Tgt Ion: 99 Resp: 1100375

Ion Ratio Lower Upper

99 100

42 19.7 14.5 21.7

71 34.4 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 5.575 ng

RT: 7.54 min Scan# 884

Delta R.T. 0.15 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Tgt Ion: 70 Resp: 87367

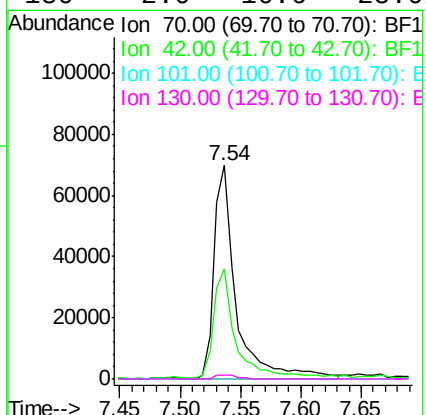
Ion Ratio Lower Upper

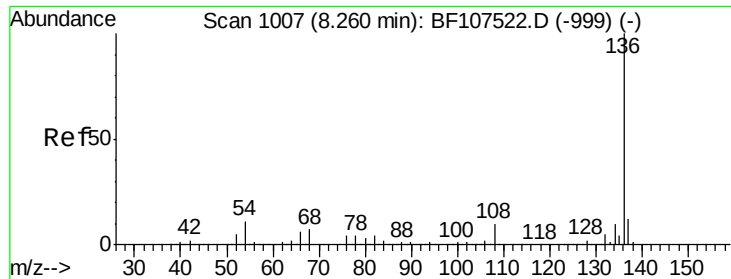
70 100

42 51.8 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#

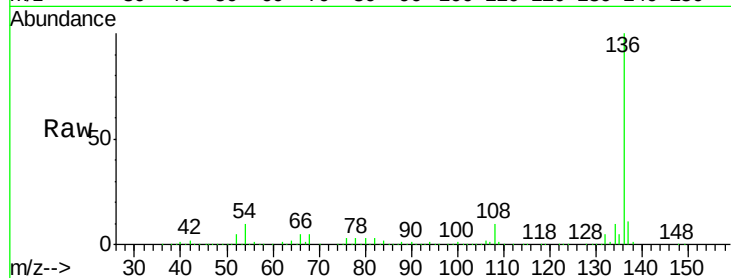




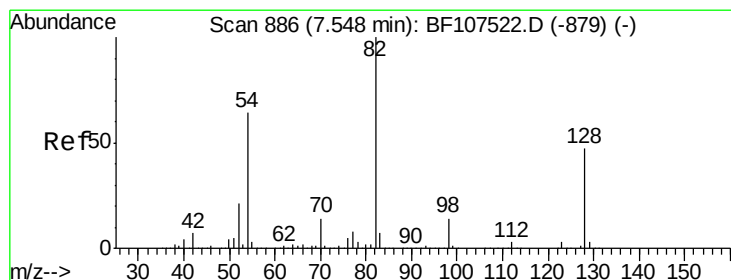
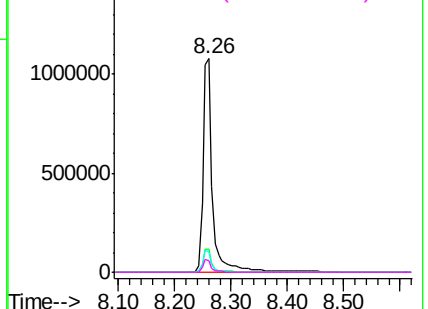
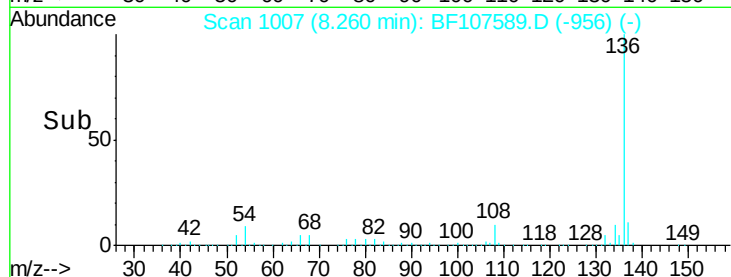
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.26 min Scan# 1007  
Delta R.T. 0.00 min  
Lab File: BF107589.D  
Acq: 23 Jul 2018 15:45

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-071918

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 136   | Resp: | 1278797 |
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 11.0  | 8.9   | 13.3    |
| 54       | 9.5   | 6.6   | 9.8     |
| 68       | 5.4   | 5.0   | 7.4     |

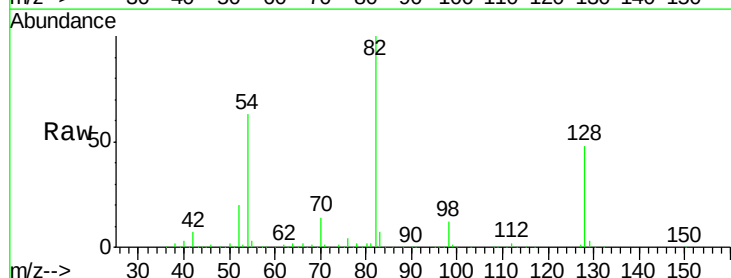


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

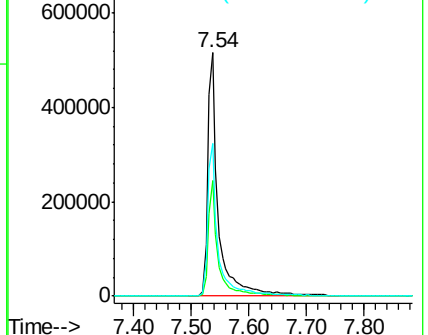
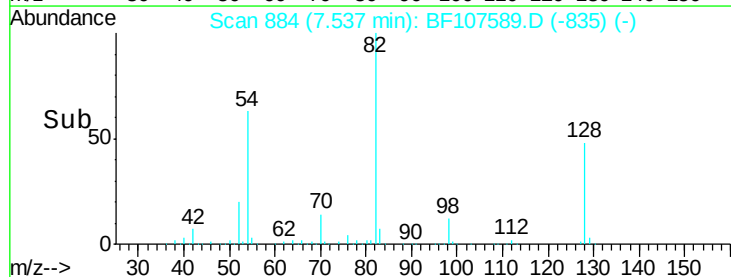


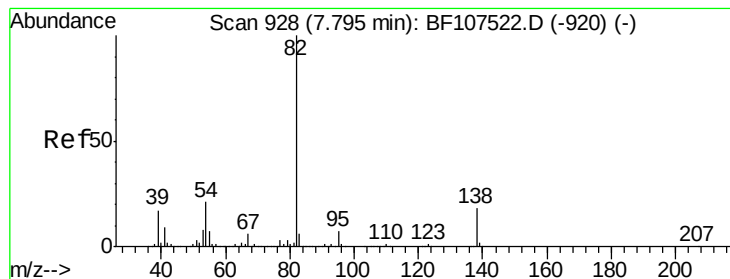
#23  
Nitrobenzene-d5  
Concen: 36.113 ng  
RT: 7.54 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF107589.D  
Acq: 23 Jul 2018 15:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 684294 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.6  | 36.1  | 54.1   |
| 54       | 62.8  | 41.4  | 62.2#  |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 16.910 ng

RT: 7.54 min Scan# 884

Delta R.T. -0.26 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

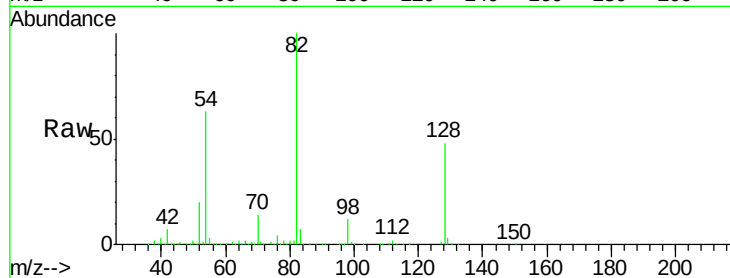
Tgt Ion: 82 Resp: 684168

Ion Ratio Lower Upper

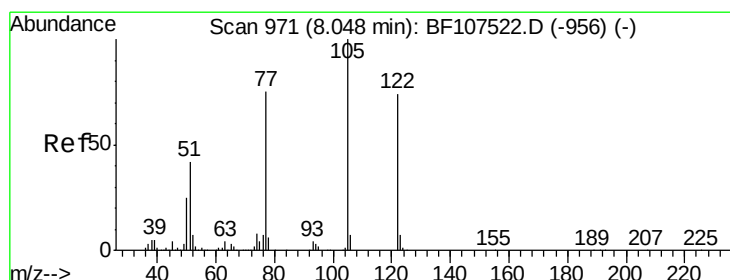
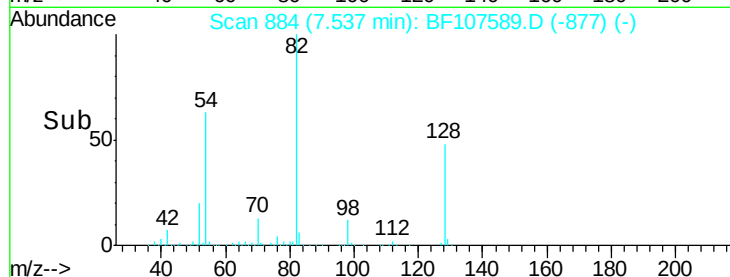
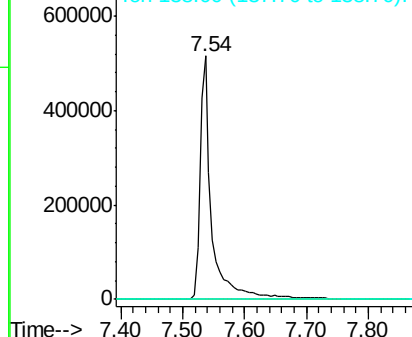
82 100

95 0.1 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#32

Benzoic acid

Concen: 7.934 ng

RT: 8.04 min Scan# 970

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

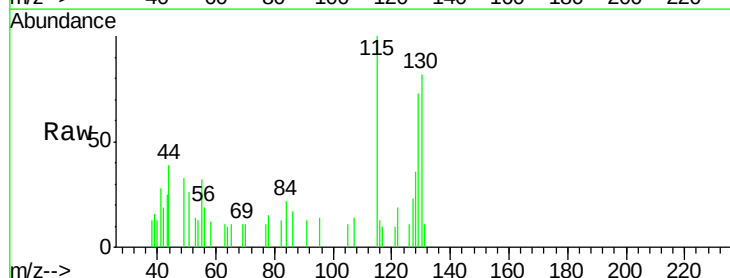
Tgt Ion: 122 Resp: 498

Ion Ratio Lower Upper

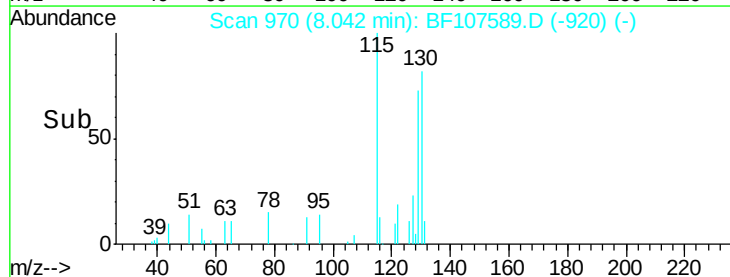
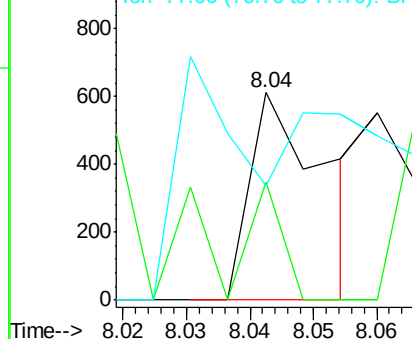
122 100

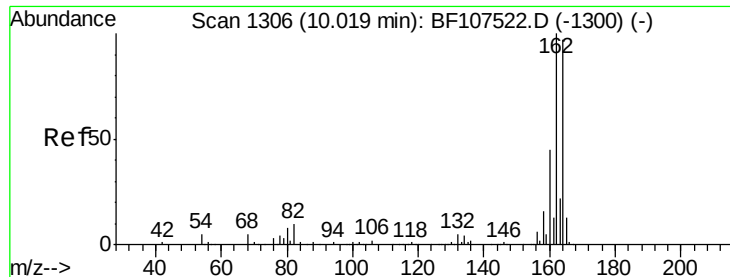
105 57.0 101.1 141.1#

77 54.8 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 77.00 (76.70 to 77.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.02 min Scan# 1306

Delta R.T. 0.00 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

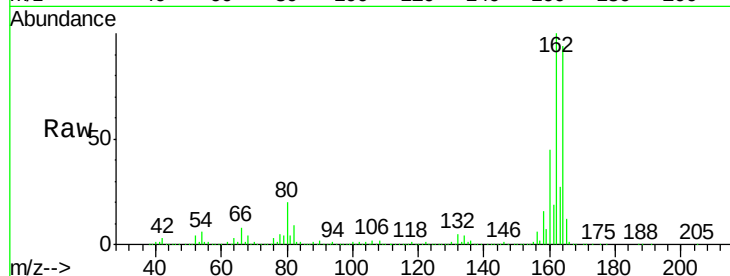
Tgt Ion:164 Resp: 518886

Ion Ratio Lower Upper

164 100

162 106.5 86.1 129.1

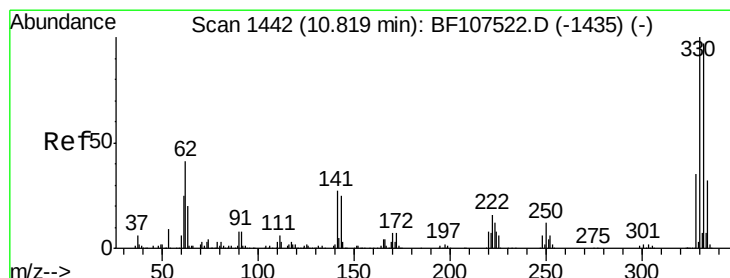
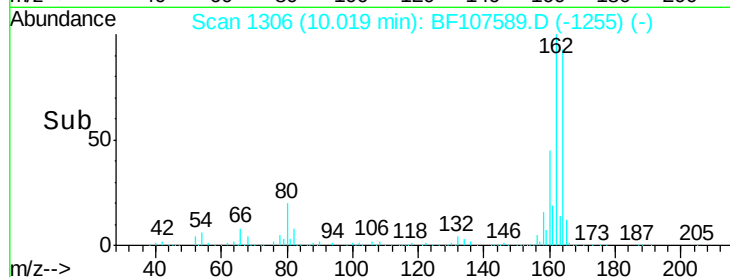
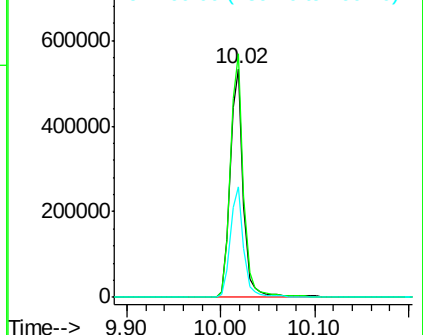
160 48.2 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 43.315 ng

RT: 10.81 min Scan# 1441

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

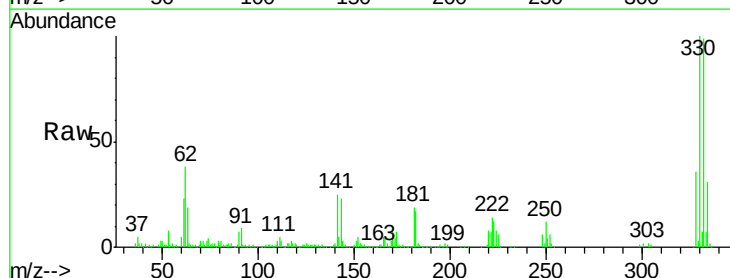
Tgt Ion:330 Resp: 255581

Ion Ratio Lower Upper

330 100

332 99.1 77.0 115.6

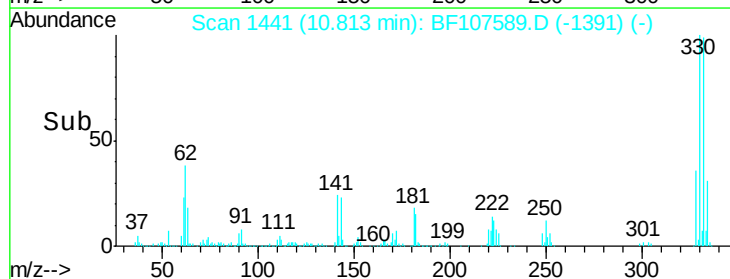
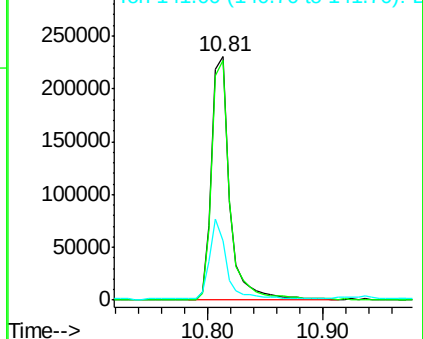
141 29.4 29.9 44.9#

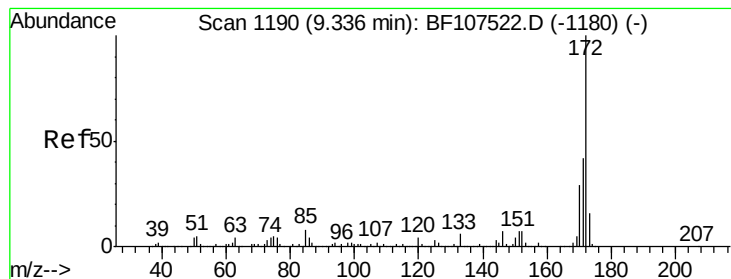


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 36.092 ng

RT: 9.33 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

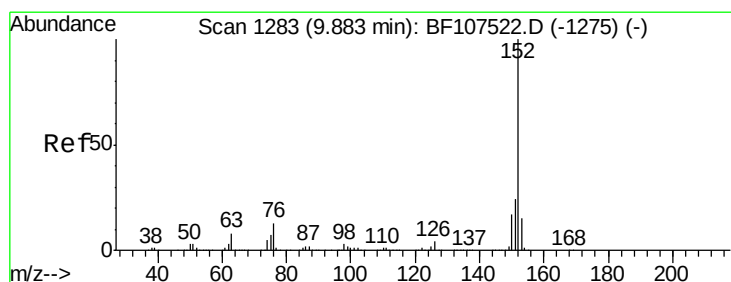
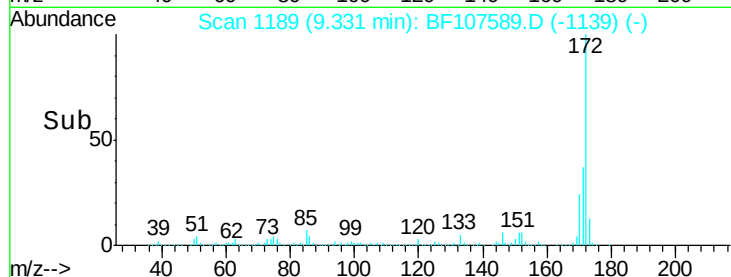
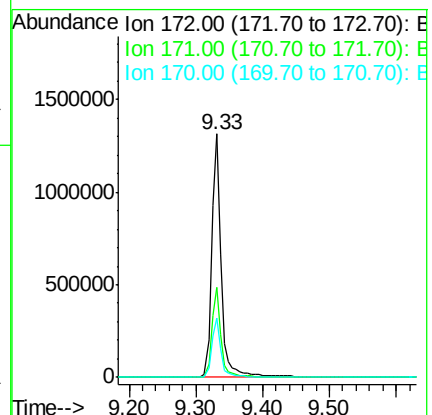
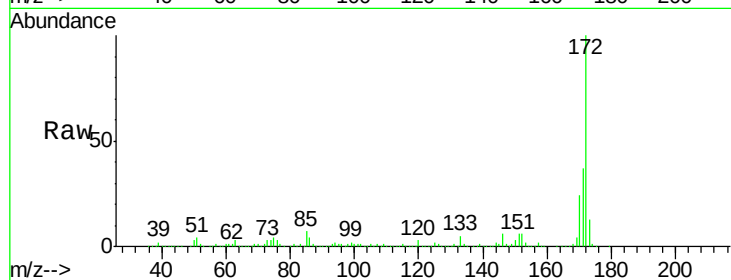
Tgt Ion:172 Resp: 1319039

Ion Ratio Lower Upper

172 100

171 36.8 29.7 44.5

170 24.2 19.6 29.4



#48

Acenaphthylene

Concen: 5.514 ng

RT: 9.88 min Scan# 1282

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

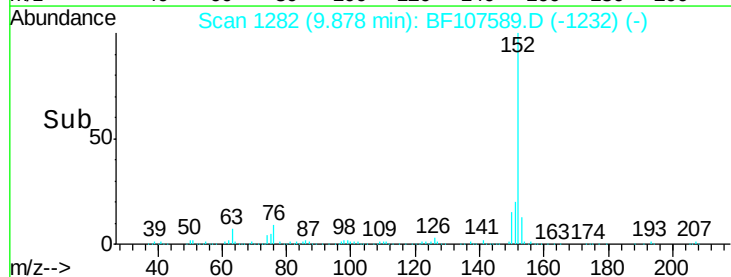
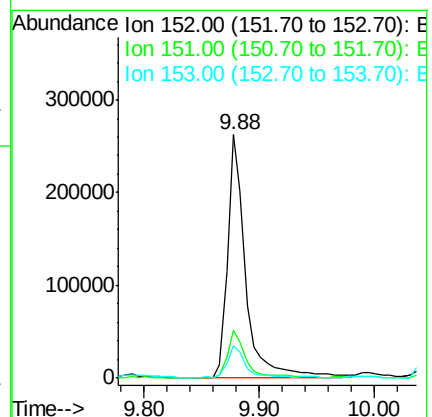
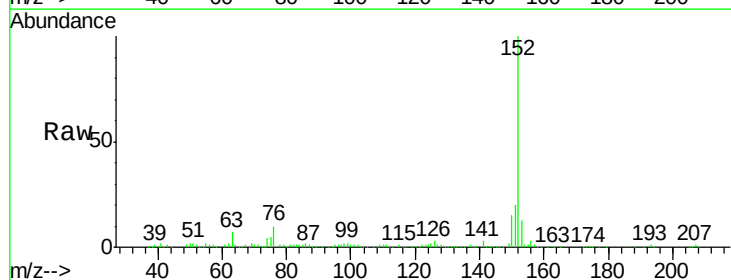
Tgt Ion:152 Resp: 286183

Ion Ratio Lower Upper

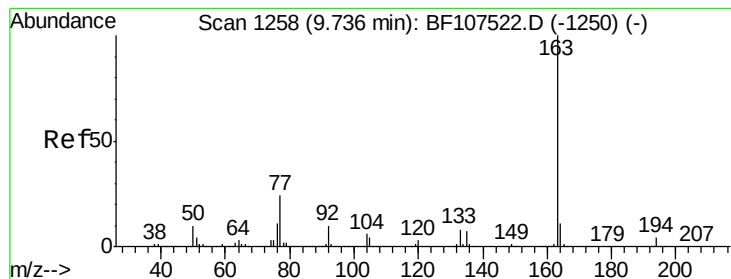
152 100

151 19.7 16.3 24.5

153 13.1 10.7 16.1







#49

Dimethylphthalate

Concen: 2.240 ng

RT: 9.72 min Scan# 1256

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

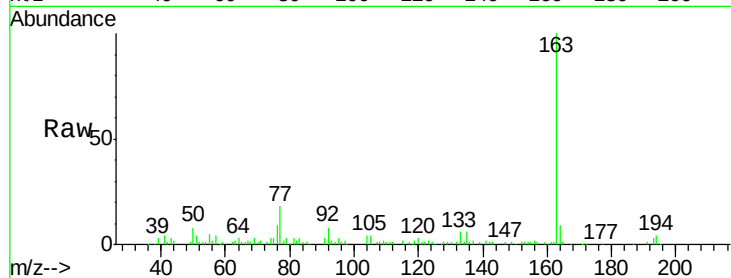
Tgt Ion:163 Resp: 87617

Ion Ratio Lower Upper

163 100

194 4.5 2.7 4.1#

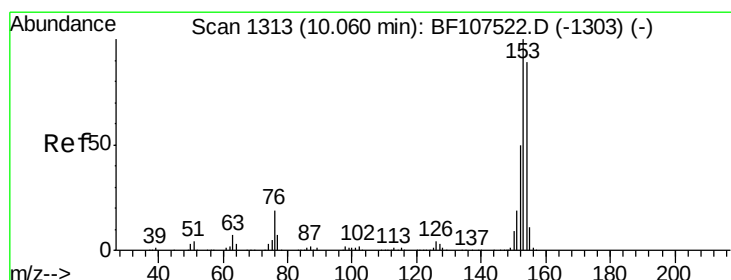
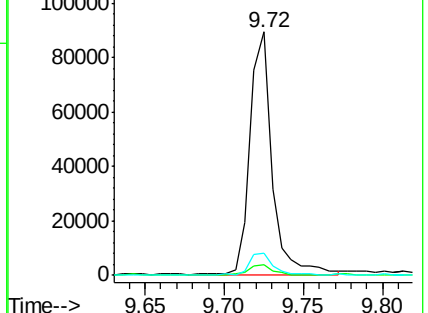
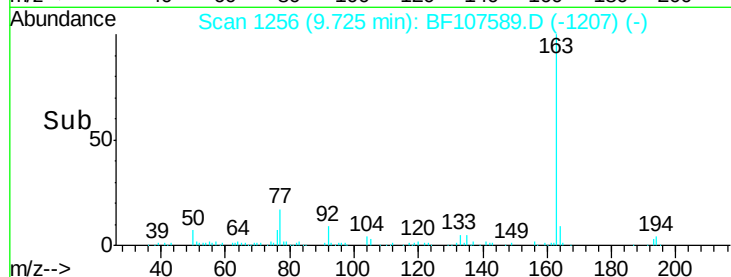
164 9.2 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 4.858 ng

RT: 10.05 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

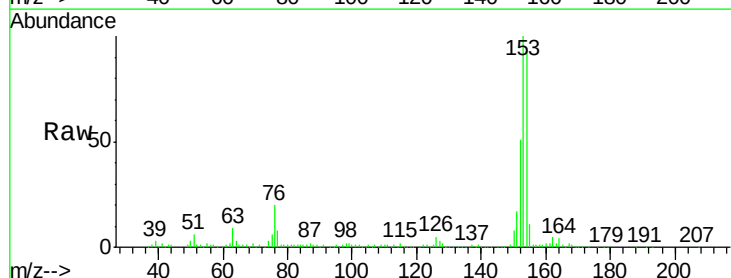
Tgt Ion:154 Resp: 157963

Ion Ratio Lower Upper

154 100

153 107.1 91.2 136.8

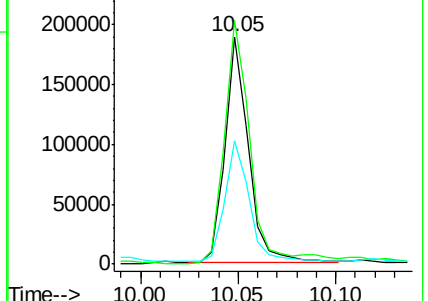
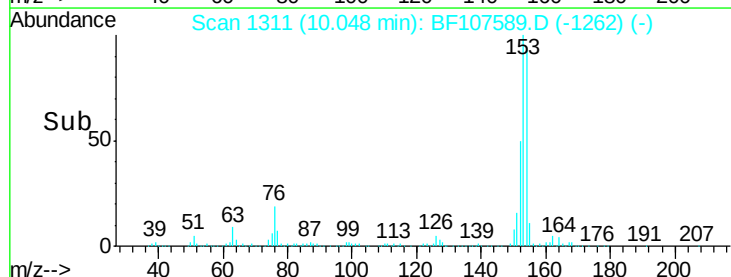
152 54.2 43.8 65.8

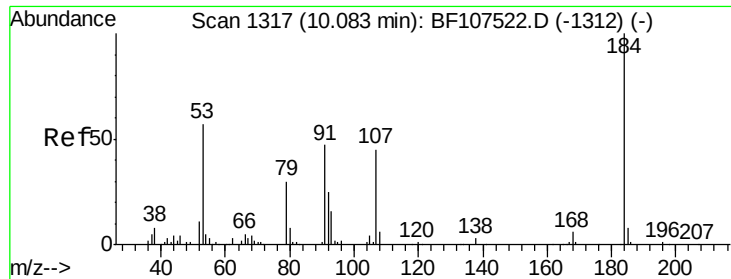


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#53

2,4-Dinitrophenol

Concen: 8.366 ng

RT: 10.33 min Scan# 1359

Delta R.T. 0.25 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

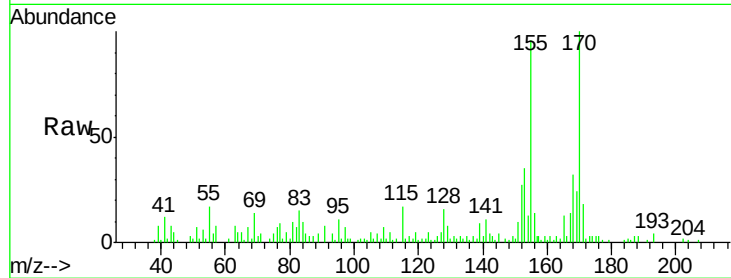
Tgt Ion:184 Resp: 229

Ion Ratio Lower Upper

184 100

63 599.4 54.2 81.2#

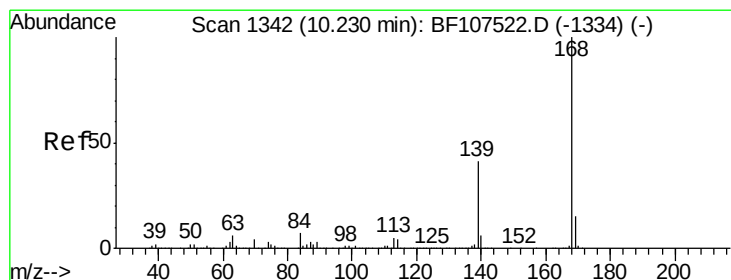
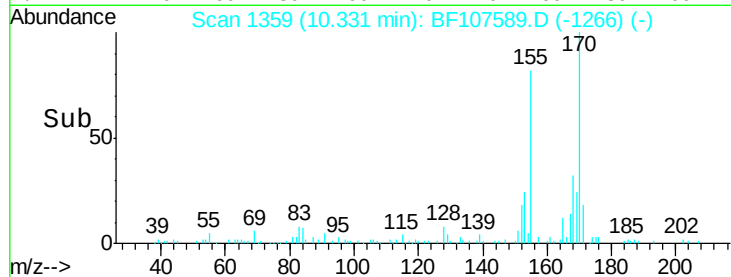
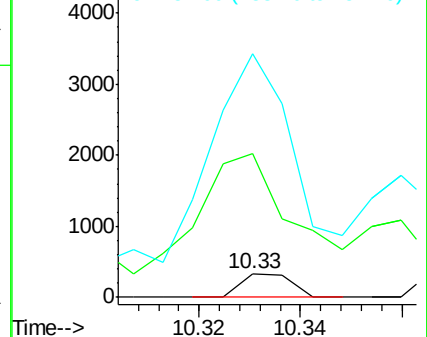
154 1011.2 184.0 276.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 2.886 ng

RT: 10.22 min Scan# 1341

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

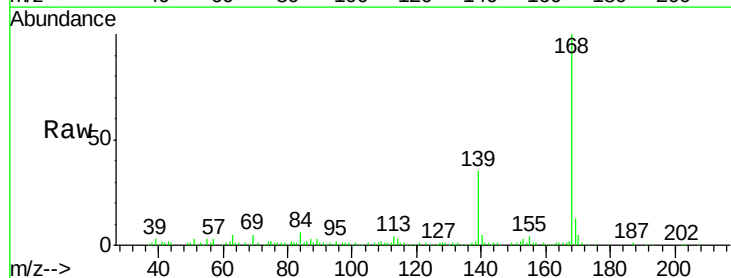
Tgt Ion:168 Resp: 138160

Ion Ratio Lower Upper

168 100

139 34.6 30.1 45.1

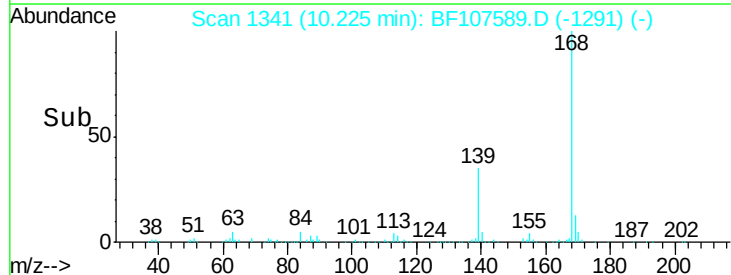
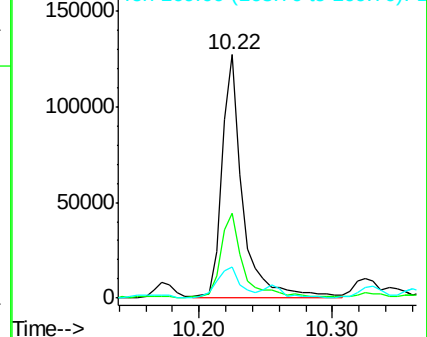
169 12.9 10.9 16.3

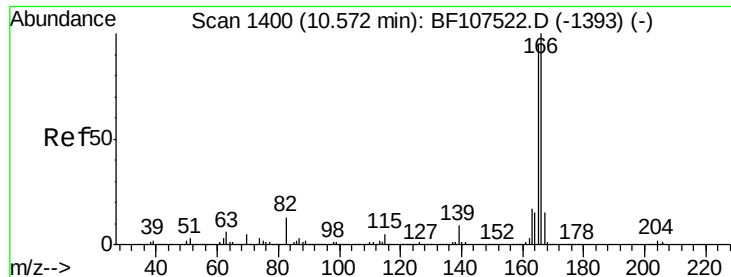


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

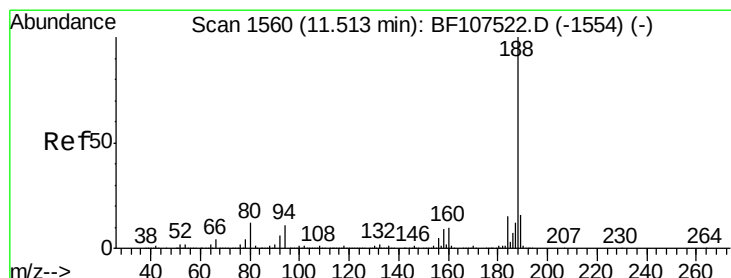
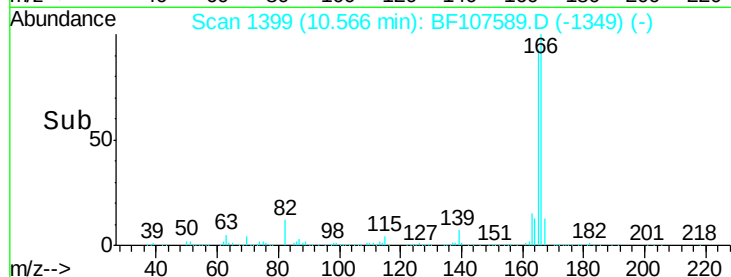
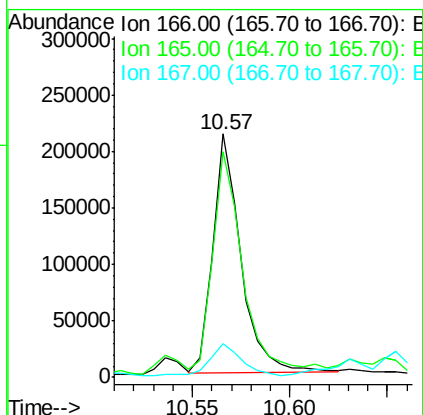
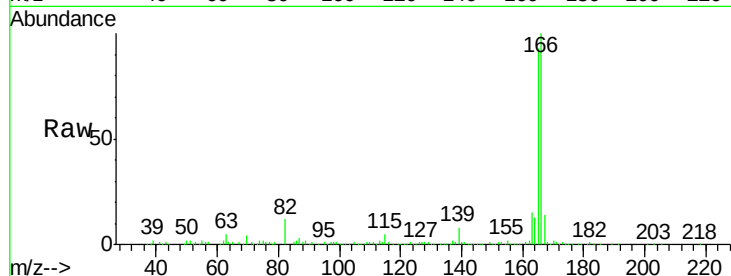




#57  
 Fluorene  
 Concen: 6.166 ng  
 RT: 10.57 min Scan# 1399  
 Delta R.T. -0.01 min  
 Lab File: BF107589.D  
 Acq: 23 Jul 2018 15:45

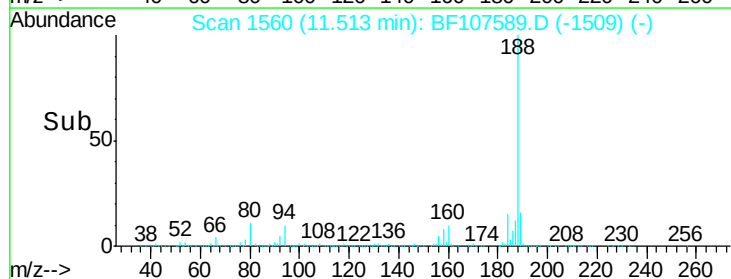
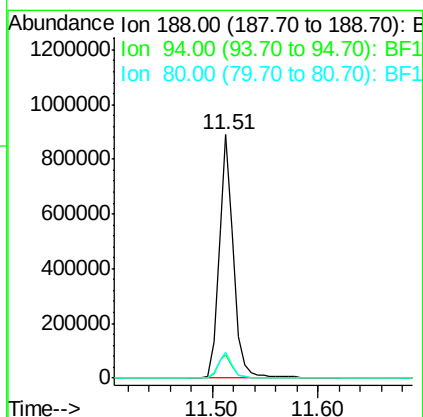
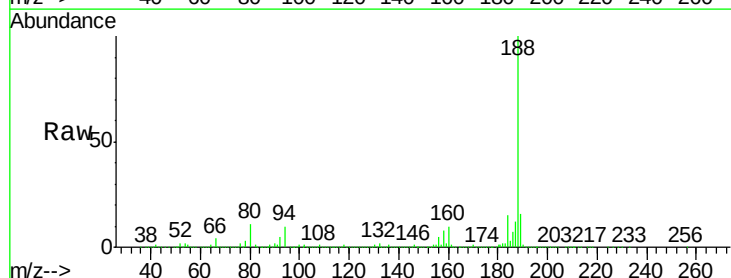
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-01-071918

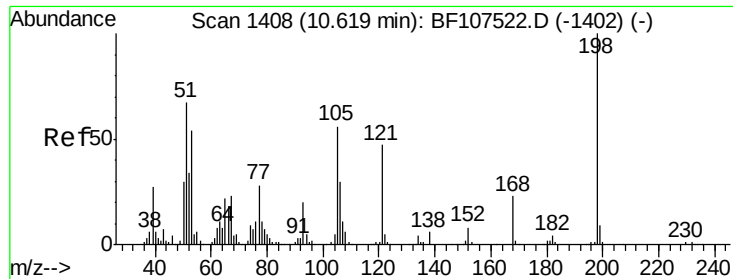
Tgt Ion:166 Resp: 210581  
 Ion Ratio Lower Upper  
 166 100  
 165 92.9 79.8 119.8  
 167 14.0 10.6 16.0



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.51 min Scan# 1560  
 Delta R.T. 0.00 min  
 Lab File: BF107589.D  
 Acq: 23 Jul 2018 15:45

Tgt Ion:188 Resp: 850668  
 Ion Ratio Lower Upper  
 188 100  
 94 9.8 8.5 12.7  
 80 10.8 9.2 13.8





#64

4,6-Dinitro-2-methylphenol

Concen: 8.703 ng

RT: 10.67 min Scan# 1416

Delta R.T. 0.05 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

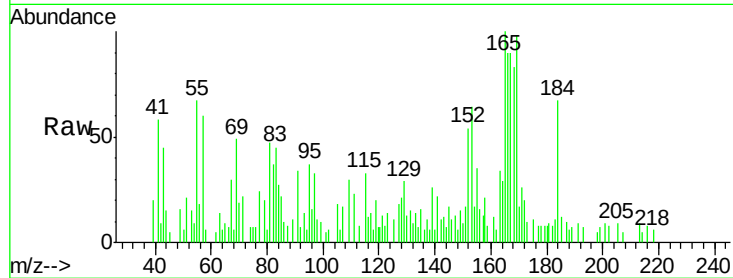
Tgt Ion:198 Resp: 111

Ion Ratio Lower Upper

198 100

51 413.0 37.7 77.7#

105 363.3 36.3 76.3#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

2000

1500

1000

500

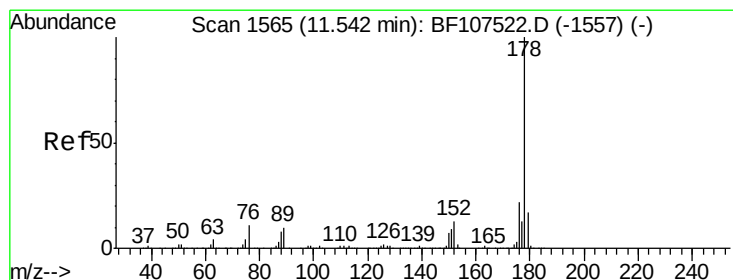
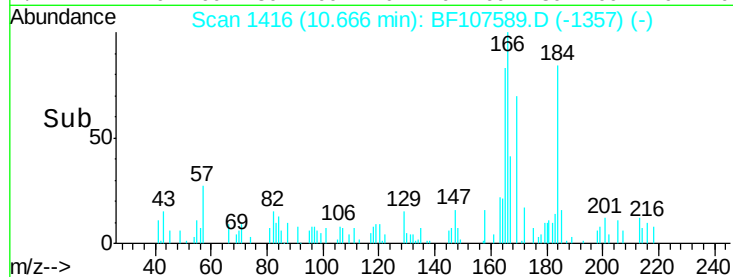
0

10.66

10.67

10.68

Time-->



#70

Phenanthrene

Concen: 40.604 ng

RT: 11.54 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

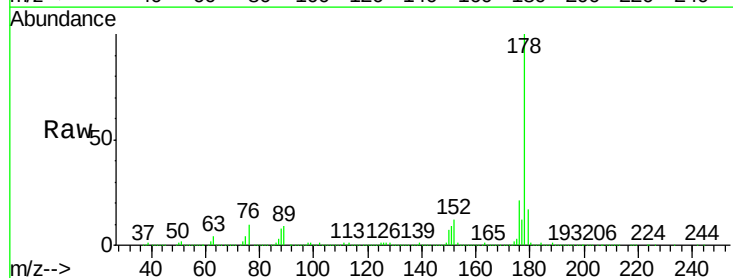
Tgt Ion:178 Resp: 1683182

Ion Ratio Lower Upper

178 100

176 20.8 15.8 23.8

179 17.0 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

2000000

1500000

1000000

500000

0

11.45

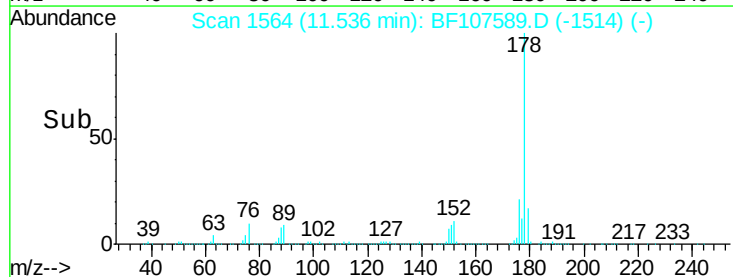
11.50

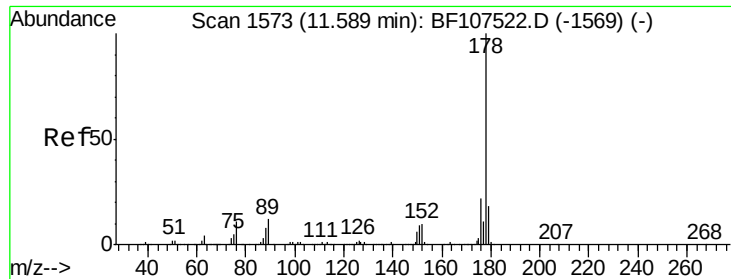
11.54

11.55

11.60

Time-->

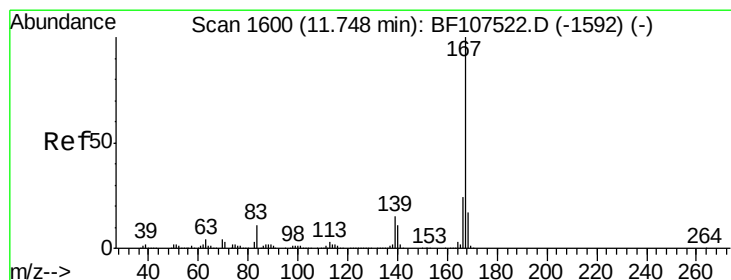
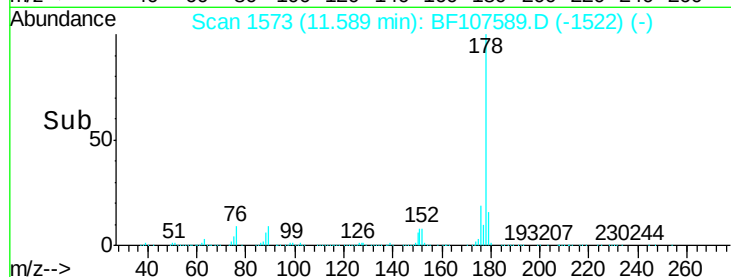
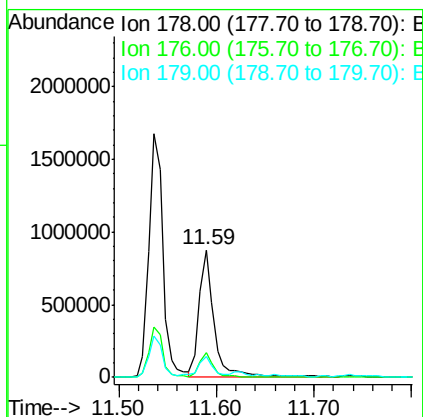
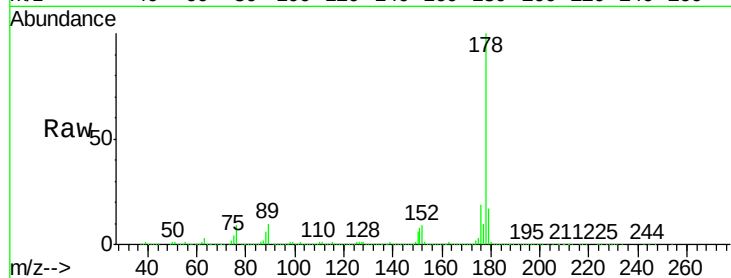




#71  
 Anthracene  
 Concen: 21.965 ng  
 RT: 11.59 min Scan# 1573  
 Delta R.T. 0.00 min  
 Lab File: BF107589.D  
 Acq: 23 Jul 2018 15:45

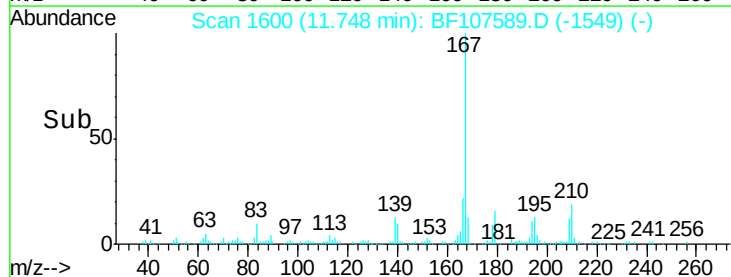
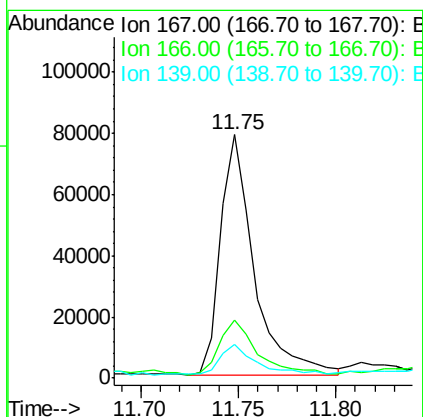
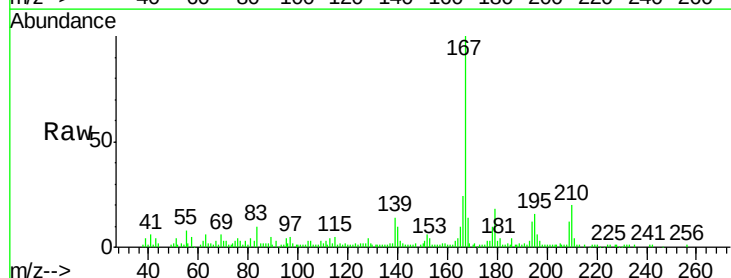
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-01-071918

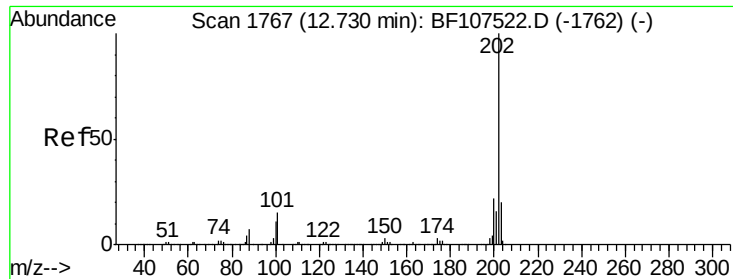
Tgt Ion:178 Resp: 916763  
 Ion Ratio Lower Upper  
 178 100  
 176 19.4 15.4 23.2  
 179 16.8 12.6 19.0



#72  
 Carbazole  
 Concen: 2.169 ng  
 RT: 11.75 min Scan# 1600  
 Delta R.T. 0.00 min  
 Lab File: BF107589.D  
 Acq: 23 Jul 2018 15:45

Tgt Ion:167 Resp: 94154  
 Ion Ratio Lower Upper  
 167 100  
 166 23.8 17.6 26.4  
 139 14.1 10.9 16.3





#74

Fluoranthene

Concen: 74.169 ng

RT: 12.74 min Scan# 1768

Delta R.T. 0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

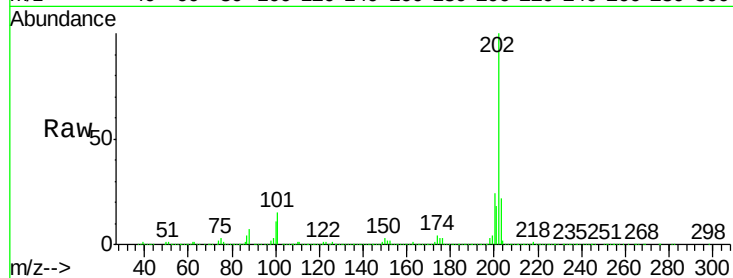
Tgt Ion:202 Resp: 3299207

Ion Ratio Lower Upper

202 100

101 14.6 0.0 34.1

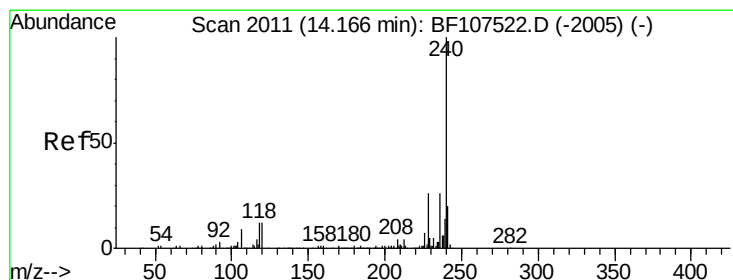
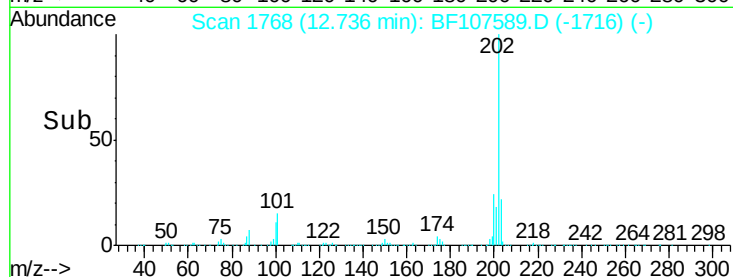
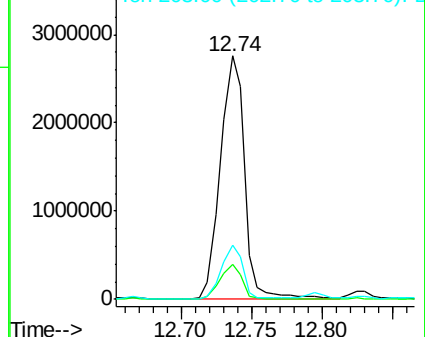
203 22.0 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.17 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

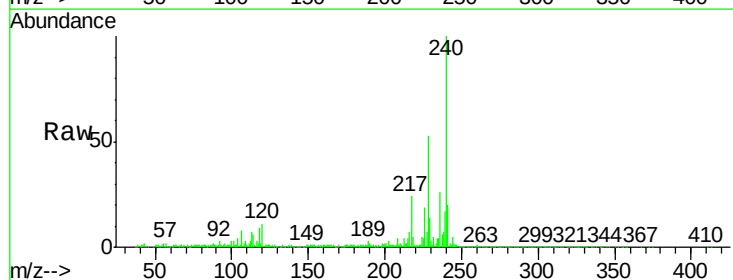
Tgt Ion:240 Resp: 668269

Ion Ratio Lower Upper

240 100

120 10.5 9.5 14.3

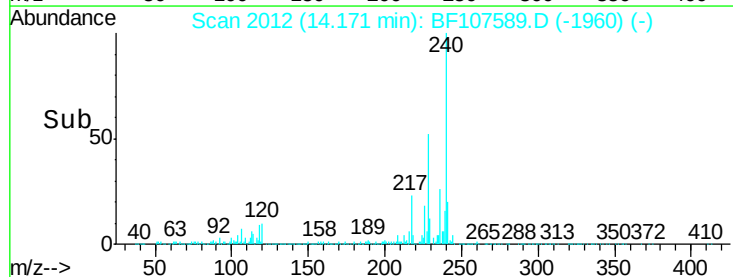
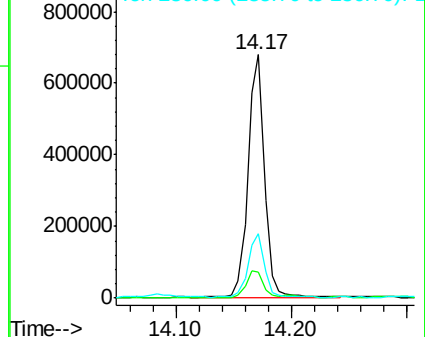
236 26.4 20.7 31.1

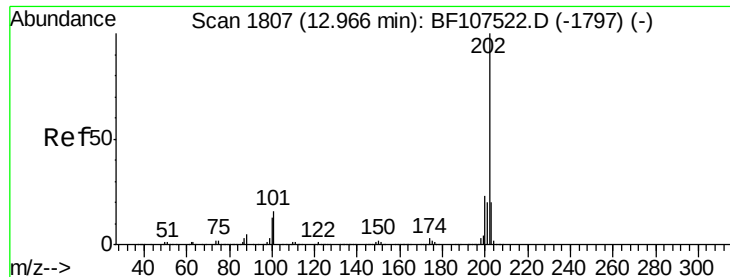


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

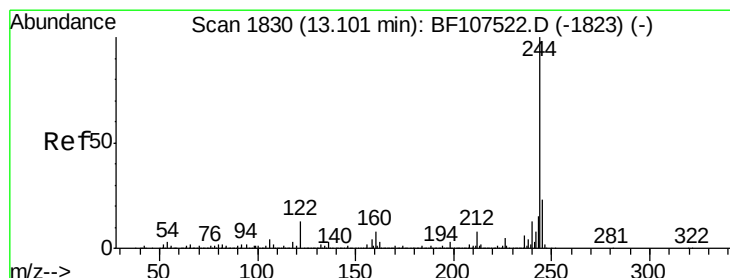
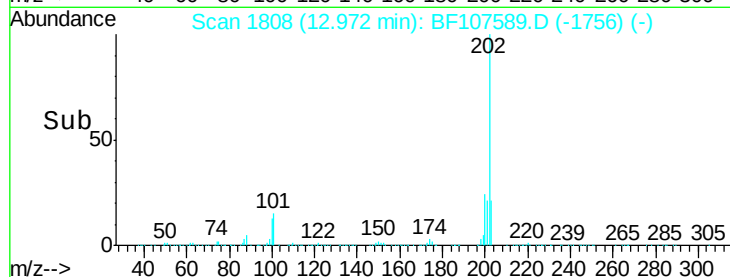
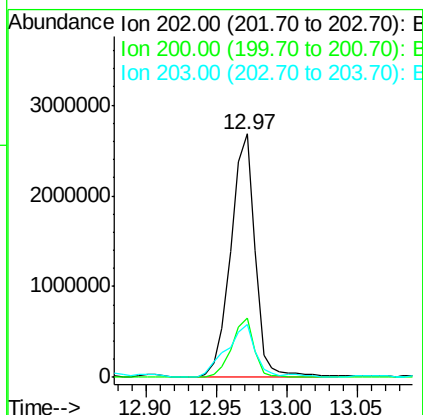
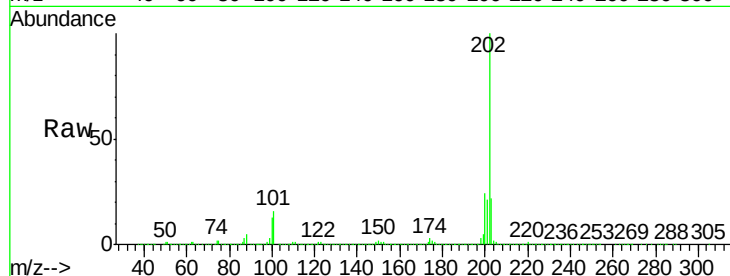




#77  
 Pyrene  
 Concen: 70.393 ng  
 RT: 12.97 min Scan# 1808  
 Delta R.T. 0.01 min  
 Lab File: BF107589.D  
 Acq: 23 Jul 2018 15:45

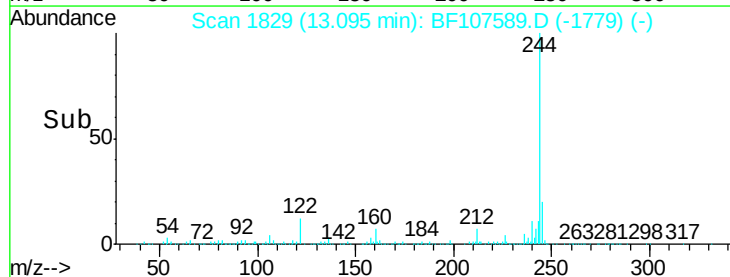
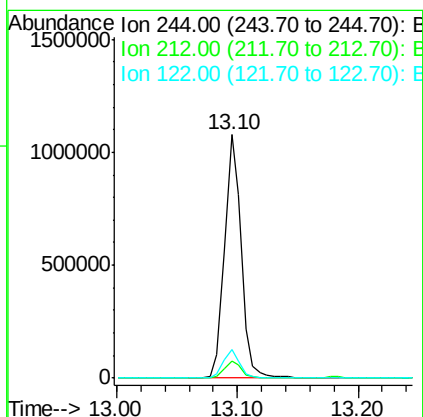
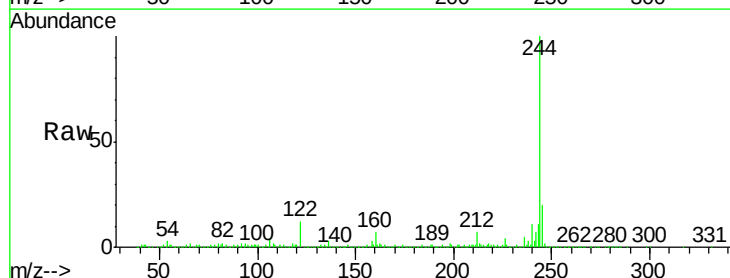
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-01-071918

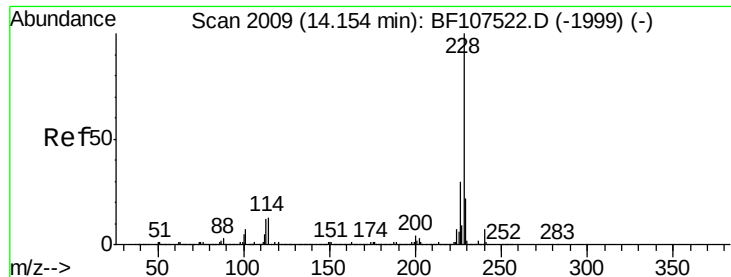
Tgt Ion:202 Resp: 3217688  
 Ion Ratio Lower Upper  
 202 100  
 200 24.3 17.4 26.2  
 203 22.0 14.3 21.5#



#78  
 Terphenyl-d14  
 Concen: 39.262 ng  
 RT: 13.10 min Scan# 1829  
 Delta R.T. -0.00 min  
 Lab File: BF107589.D  
 Acq: 23 Jul 2018 15:45

Tgt Ion:244 Resp: 1024869  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.4 8.0  
 122 12.0 11.0 16.4

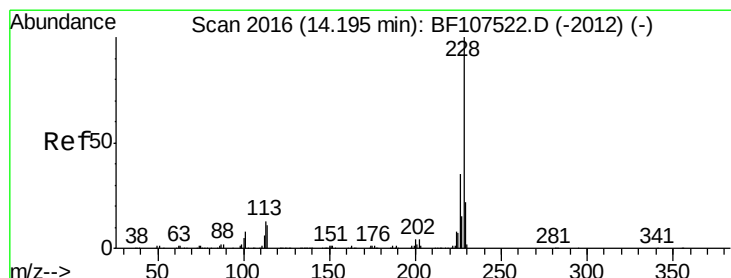
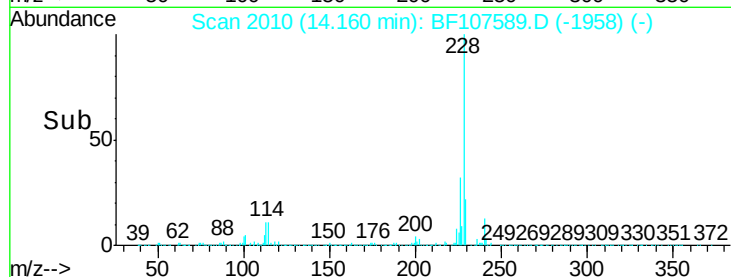
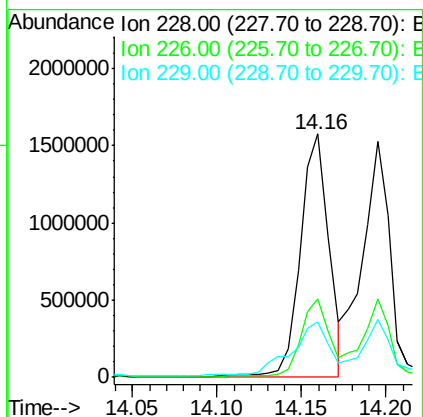
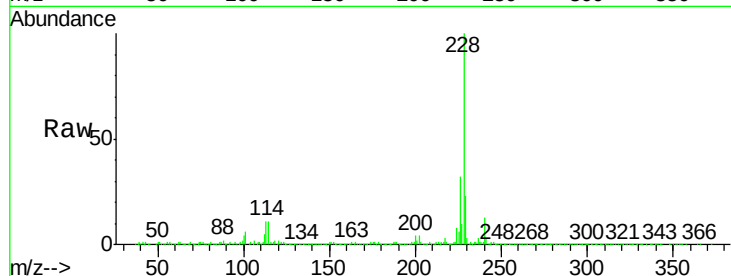




#80  
Benzo(a)anthracene  
Concen: 46.480 ng  
RT: 14.16 min Scan# 2010  
Delta R.T. 0.01 min  
Lab File: BF107589.D  
Acq: 23 Jul 2018 15:45

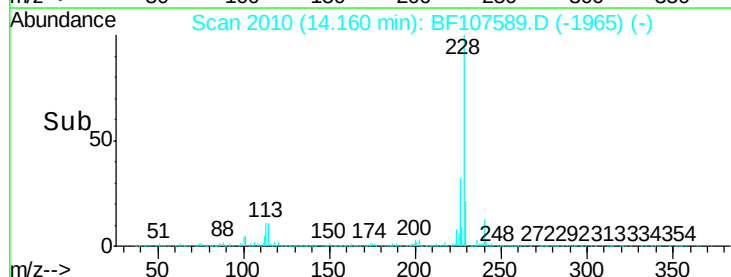
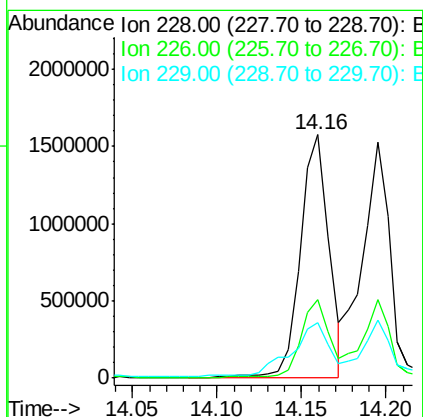
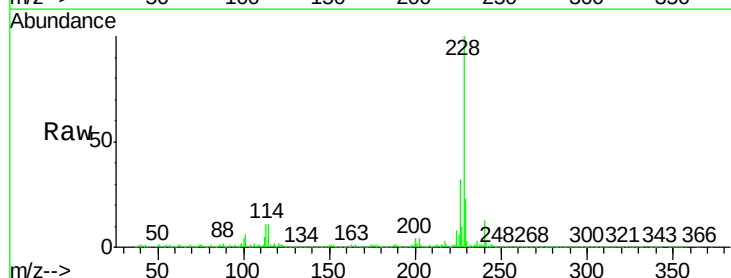
Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-071918

Tgt Ion:228 Resp: 1820234  
Ion Ratio Lower Upper  
228 100  
226 32.2 22.6 33.8  
229 22.6 15.8 23.6

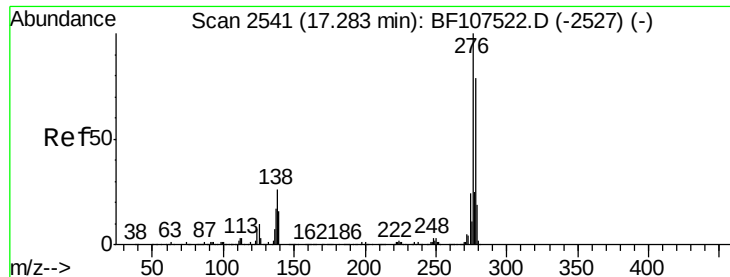


#82  
Chrysene  
Concen: 48.386 ng  
RT: 14.16 min Scan# 2010  
Delta R.T. -0.04 min  
Lab File: BF107589.D  
Acq: 23 Jul 2018 15:45

Tgt Ion:228 Resp: 1820234  
Ion Ratio Lower Upper  
228 100  
226 32.2 25.0 37.6  
229 22.6 16.2 24.4



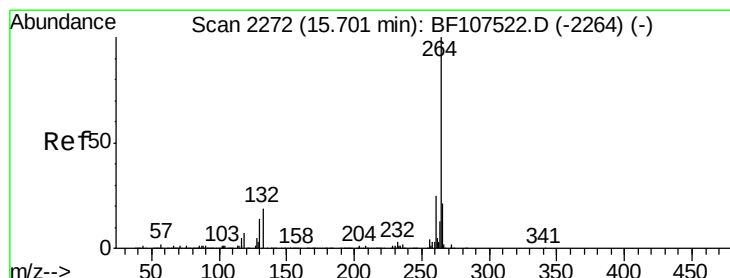
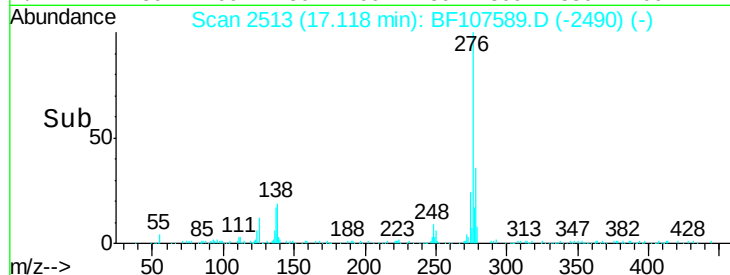
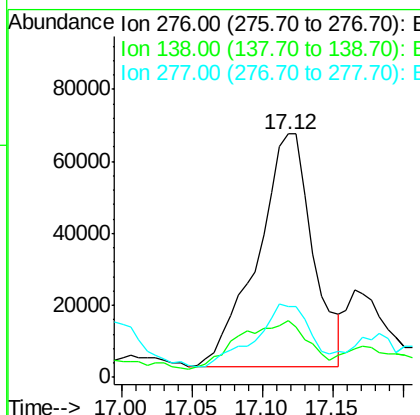
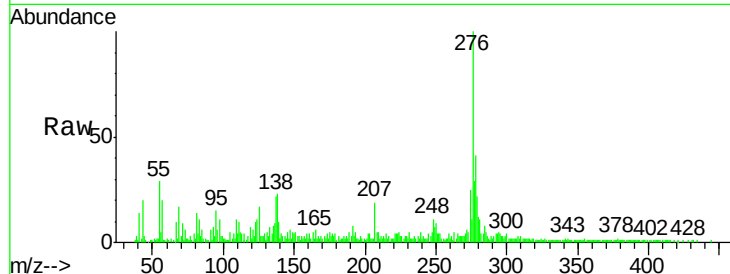




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 5.574 ng  
 RT: 17.12 min Scan# 2513  
 Delta R.T. -0.16 min  
 Lab File: BF107589.D  
 Acq: 23 Jul 2018 15:45

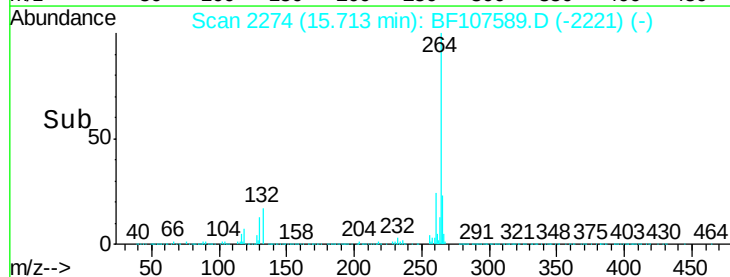
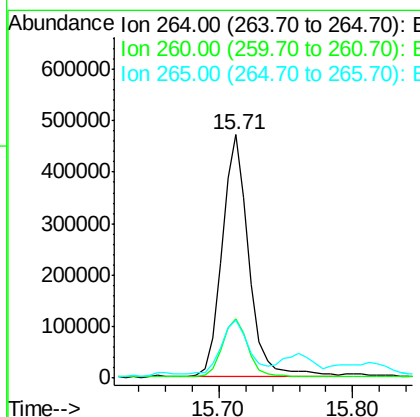
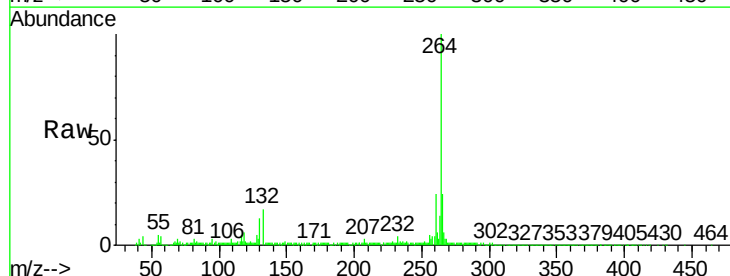
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-01-071918

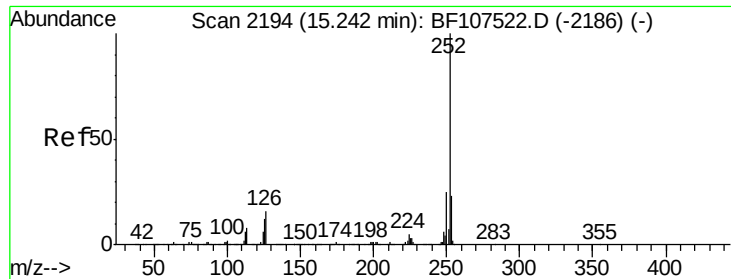
Tgt Ion:276 Resp: 177708  
 Ion Ratio Lower Upper  
 276 100  
 138 26.3 25.0 37.6  
 277 26.2 20.1 30.1



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.71 min Scan# 2274  
 Delta R.T. 0.01 min  
 Lab File: BF107589.D  
 Acq: 23 Jul 2018 15:45

Tgt Ion:264 Resp: 654663  
 Ion Ratio Lower Upper  
 264 100  
 260 24.2 19.2 28.8  
 265 23.8 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 84.744 ng

RT: 15.26 min Scan# 2197

Delta R.T. 0.02 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

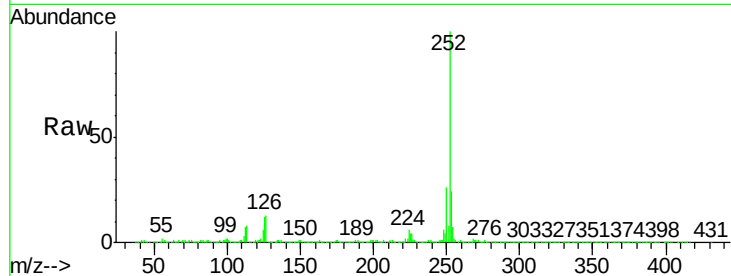
Tgt Ion:252 Resp: 3036280

Ion Ratio Lower Upper

252 100

253 23.6 17.0 25.6

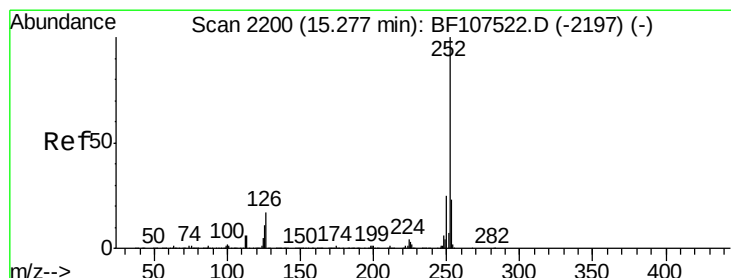
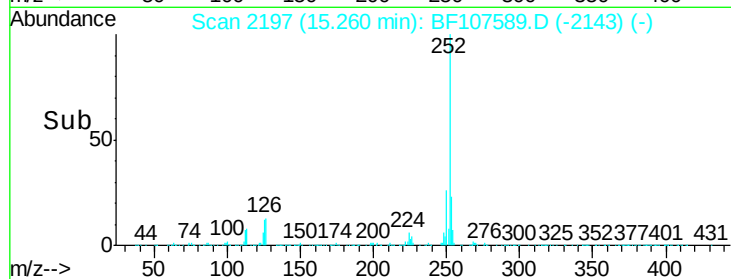
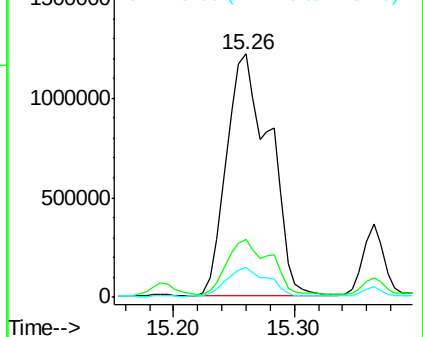
125 12.2 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 86.498 ng

RT: 15.26 min Scan# 2197

Delta R.T. -0.02 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

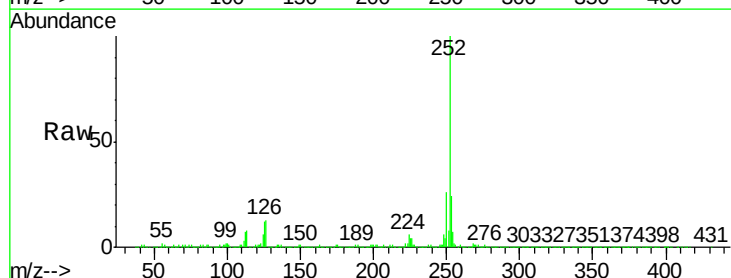
Tgt Ion:252 Resp: 3036280

Ion Ratio Lower Upper

252 100

253 23.6 17.9 26.9

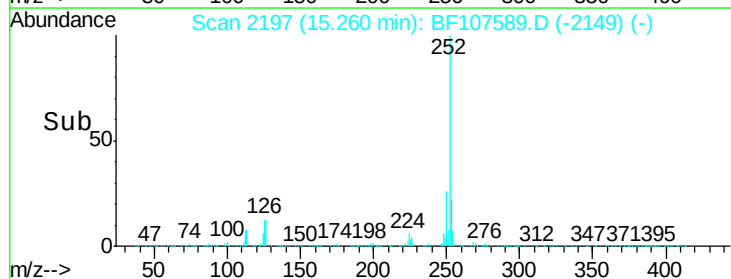
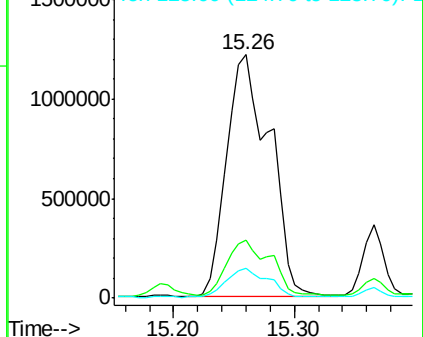
125 12.2 10.2 15.2

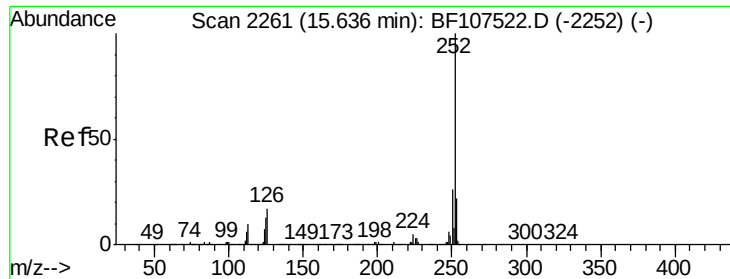


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 52.107 ng

RT: 15.65 min Scan# 2264

Delta R.T. 0.02 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

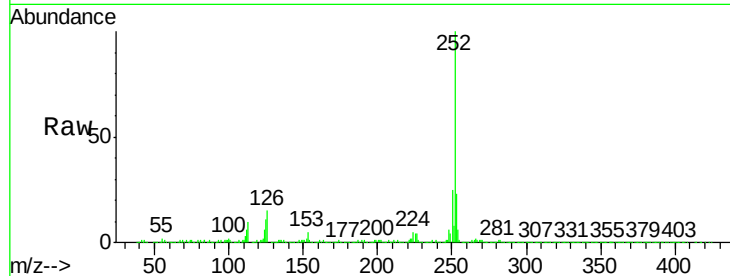
Tgt Ion:252 Resp: 1707742

Ion Ratio Lower Upper

252 100

253 23.3 17.1 25.7

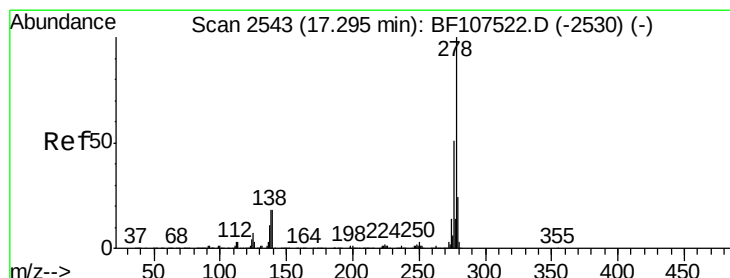
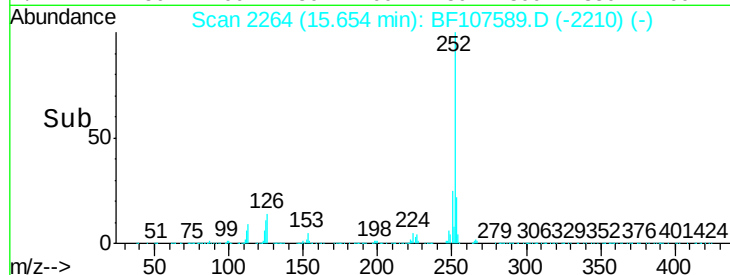
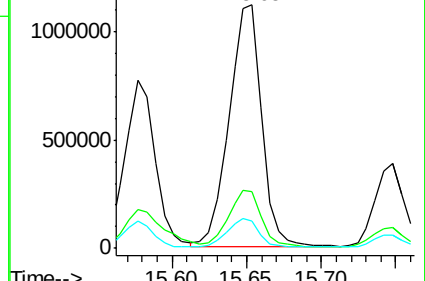
125 11.1 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 7.113 ng

RT: 17.48 min Scan# 2574

Delta R.T. 0.18 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

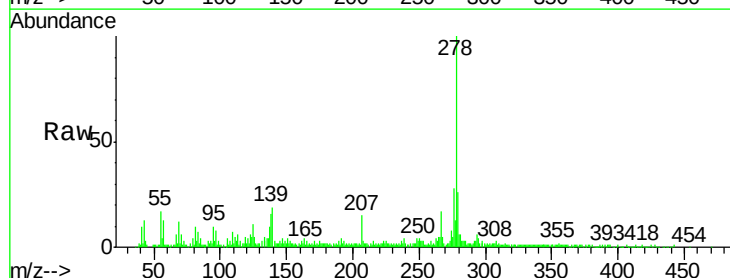
Tgt Ion:278 Resp: 201509

Ion Ratio Lower Upper

278 100

139 19.2 15.9 23.9

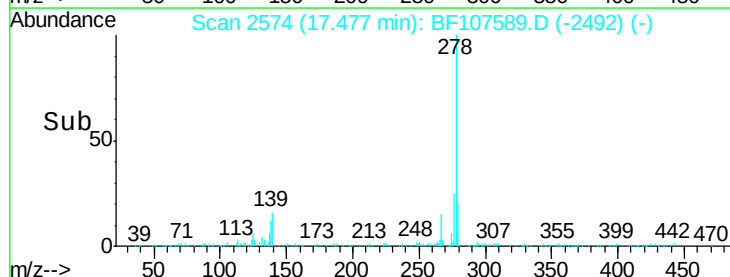
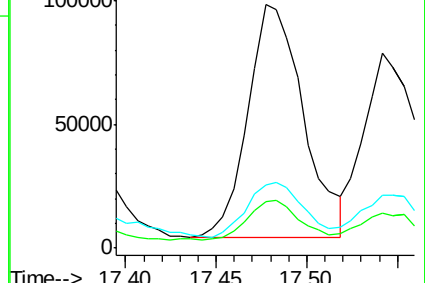
279 26.1 19.0 28.4

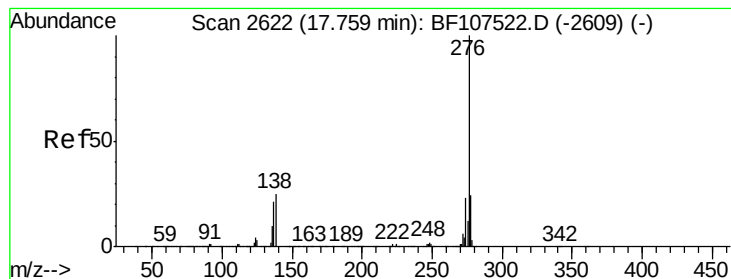


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 34.363 ng

RT: 17.78 min Scan# 2626

Delta R.T. 0.02 min

Lab File: BF107589.D

Acq: 23 Jul 2018 15:45

Instrument :

BNA\_F

ClientSampleId :

OR-01-071918

Tgt Ion: 276 Resp: 960275

Ion Ratio Lower Upper

276 100

277 24.9 17.9 26.9

138 23.8 21.8 32.8

